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PLUS 6/23/04

Butler, Douglas

From: PLUS
Sent: Monday, June 21, 2004 2:09 PM
To: Butler, Douglas
Subject: PLUS Results for 10812108

Here are the PLUS search results for 10812108.

This search was prepared by the staff of the Scientific and Technical Information Center, SIRA. If you have questions or comments about this search, please reply via email to PLUS@uspto.gov.



10812108_QUAL.txt



10812108_LIST.txt



10812108_WEST.txt



10812108_EAST.txt



10812108.east



10812108_CLS.txt



10812108_CLSTITLES.txt



10812108_WDS.txt

xl

10812108_LIST

10812108

PLUS Search Results for S/N 10812108, Searched June 21, 2004

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6712059	4514714	5816233
5660158	5371320	5881704
4936283	5808522	6543432
6382201	5835474	5682969
6526957	6019056	4828533
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6257220	6105565	5535727
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3596733	5411008	5246398

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10812108_CLS
Most Frequently Occurring Classifications of Patents Returned
From A Search of 10812108 on June 21, 2004

Original Classifications

14	124/89
8	74/574
4	124/23.1
4	124/25.6
3	124/86
3	228/180.5
3	464/24
2	174/42
2	192/3.29
2	257/776
2	267/136
2	267/154
2	267/293
2	440/6
2	464/67
2	473/520

Cross-Reference Classifications

11	74/574
11	464/68
5	124/23.1
5	124/88
5	188/378
5	192/208
5	192/212
5	257/E21.518
4	124/900
4	188/379
4	192/70.17
4	464/24
3	124/86
3	126/77
3	192/213.2
3	228/4.5
3	267/136
3	464/66
3	464/67
2	42/1.06
2	52/167.4
2	74/573F
2	114/124
2	114/274
2	165/103
2	188/267
2	188/322.5
2	192/204
2	192/205
2	192/207
2	192/209
2	192/213.1
2	192/30V
2	228/1.1
2	228/110.1
2	248/562

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2 248/584
2 257/666
2 257/696
2 257/775
2 257/780
2 257/784
2 267/140.11
2 267/141.2
2 267/219
2 267/292
2 381/354
2 422/176
2 438/617
2 440/53
2 464/17
2 464/180
2 464/57
2 464/64
2 984/DIG 1

Combined Classifications

19 74/574
14 124/89
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9 124/23.1
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2 165/103
2 174/42

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2 188/267
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2 192/207
2 192/209
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2 192/214.1
2 192/30V
2 192/55.4
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2 228/110.1
2 248/559
2 248/562
2 248/584
2 257/666
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2 257/775
2 257/776
2 257/780
2 257/784
2 267/140.11
2 267/140.13
2 267/141.2
2 267/219
2 310/326
2 381/354
2 422/176
2 438/617
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2 440/6
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3 228/4.5
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2 137/512.15
2 165/103
2 174/42

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2 188/267
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2 473/520
2 984/DIG 1

10812108_CLSTITLES

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10812108 on June 21, 2004

19 74/574 (8 OR, 11 XR)
Class 074 : MACHINE ELEMENT OR MECHANISM
74/469 CONTROL LEVER AND LINKAGE SYSTEMS
74/572 .Flywheels and rotors
74/574 ..With vibration damping means

14 124/89 (14 OR, 0 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/80 ELEMENT
124/86 .For archery projector
124/88 ..Bow handle or attachment thereto
124/89 ...For stabilization thereof

12 464/68 (1 OR, 11 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND
FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
464/61 .Element is a spring coiled about centerline
angularly related to or radially spaced from rotationa
axis
464/62 ..Plural springs
464/66 ...Opposite ends of spring are equidistant from
rotational axis
464/68Springs positioned between axially spaced
plates of one member and driven by other member extending
radially between said plates

9 124/23.1 (4 OR, 5 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/16 SPRING
124/23.1 .Bow

7 464/24 (3 OR, 4 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND
FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/24 FLUID COUPLING

6 124/86 (3 OR, 3 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/80 ELEMENT
124/86 .For archery projector

6 192/208 (1 OR, 5 XR)
Class 192 : CLUTCHES AND POWER-STOP CONTROL
192/30R CLUTCHES
192/200 .Clutch element resiliently carried on hub
192/207 ..Circumferential resilience
192/208 ...With fluid damping

5 124/25.6 (4 OR, 1 XR)
Class 124 : MECHANICAL GUNS AND PROJECTORS
124/16 SPRING
124/23.1 .Bow
124/25.6 ..Compound bow

10812108_CLSTITLES

- 5 124/88 (0 OR, 5 XR)
 Class 124 : MECHANICAL GUNS AND PROJECTORS
 124/80 ELEMENT
 124/86 .For archery projector
 124/88 ..Bow handle or attachment thereto
- 5 188/378 (0 OR, 5 XR)
 Class 188 : BRAKES
 188/378 INERTIA OF DAMPING MASS DISSIPATES MOTION
 (E.G., VIBRATION DAMPER)

- 5 192/212 (0 OR, 5 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/200 .Clutch element resiliently carried on hub
 192/207 ..Circumferential resilience
 192/212 ...Coil spring

- 5 192/70.17 (1 OR, 4 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/66.1 .Axially engaging
 192/70.11 ..Interposed, mating clutch-elements
 192/70.16 ...With torque connection between
 clutch-element and its shaft
 192/70.17Resilient torque connection (e.g., for
 damping vibration)

- 5 257/E21.518 (0 OR, 5 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/E21.001 PROCESSES OR APPARATUS ADAPTED FOR MANUFACTURE
 OR TREATMENT OF SEMICONDUCTOR OR SOLID-STATE DEVICES

OR OF

- PARTS THEREOF (EPO)
 257/E21.002 .Manufacture or treatment of semiconductor
 device (EPO)
 257/E21.04 ..Device having at least one potential-jump
 barrier or surface barrier, e.g., PN junction, depleti

on

- layer, carrier concentration layer (EPO)
 257/E21.499 ...Assembling semiconductor devices, e.g.,
 packaging, including mounting, encapsulating, or treat

ment

- of packaged semiconductor (EPO)
 257/E21.506Attaching or detaching leads or other
 conductive members, to be used for carrying current to o

r

- from device in operation (EPO)
 257/E21.518Involving application of mechanical
 vibration, e.g., ultrasonic vibration (EPO)

- 5 267/136 (2 OR, 3 XR)
 Class 267 : SPRING DEVICES
 267/136 RESILIENT SHOCK OR VIBRATION ABSORBER

- 5 464/67 (2 OR, 3 XR)
 Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND
 FLEXIBLE COUPLINGS FOR ROTARY SHAFTS

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- 464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
 464/61 .Element is a spring coiled about centerline
 1 angularly related to or radially spaced from rotationa
 axis
 464/62 ..Plural springs
 464/66 ...Opposite ends of spring are equidistant from
 rotational axis
 464/67Springs on circumferentially extending
 curved centerline
- 4 124/900 (0 OR, 4 XR)
 Class 124 : MECHANICAL GUNS AND PROJECTORS
 124/900 LIMB TIP ROTATABLE ELEMENT STRUCTURE
- 4 188/379 (0 OR, 4 XR)
 Class 188 : BRAKES
 188/378 INERTIA OF DAMPING MASS DISSIPATES MOTION
 (E.G., VIBRATION DAMPER)
 188/379 .Resiliently supported damping mass
- 3 126/77 (0 OR, 3 XR)
 Class 126 : STOVES AND FURNACES
 126/99R HOT-AIR FURNACES
 126/58 .Heating
 126/77 ..Feeding air
- 3 192/213.2 (0 OR, 3 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/200 .Clutch element resiliently carried on hub
 192/207 ..Circumferential resilience
 192/212 ...Coil spring
 192/213Plural helical coil spring damping stages
 192/213.2Plural radially spaced springs in a common
 radial plane
- 3 192/3.29 (2 OR, 1 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/3.21 VORTEX-FLOW DRIVE AND CLUTCH
 192/3.28 .Including drive-lockup clutch
 192/3.29 ..Having fluid-pressure operator
- 3 228/180.5 (3 OR, 0 XR)
 Class 228 : METAL FUSION BONDING
 228/101 PROCESS
 228/178 .Plural joints
 228/179.1 ..Of electrical device (e.g., semiconductor)
 228/180.5 ...Wire bonding
- 3 228/4.5 (0 OR, 3 XR)
 Class 228 : METAL FUSION BONDING
 228/4.1 WITH MEANS TO JUXTAPOSE AND BOND PLURAL
 WORKPIECES
 228/4.5 .Wire lead bonder
- 3 267/154 (2 OR, 1 XR)
 Class 267 : SPRING DEVICES

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- 267/154 TORSION
- 3 267/292 (1 OR, 2 XR)
 Class 267 : SPRING DEVICES
 267/2 VEHICLE
 267/292 .Elastomeric
- 3 267/293 (2 OR, 1 XR)
 Class 267 : SPRING DEVICES
 267/2 VEHICLE
 267/292 .Elastomeric
 267/293 ..Including central guide rod or tube through
 spring
- 3 464/66 (0 OR, 3 XR)
 Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND
 FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
 464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
 464/61 .Element is a spring coiled about centerline
 angularly related to or radially spaced from rotational
 axis
 464/62 ..Plural springs
 464/66 ...Opposite ends of spring are equidistant from
 rotational axis
- 2 42/1.06 (0 OR, 2 XR)
 Class 042 : FIREARMS
 42/1.06 WITH RECOIL REDUCER
- 2 52/167.4 (0 OR, 2 XR)
 Class 052 : STATIC STRUCTURES
 52/167.1 MEANS COMPENSATING EARTH-TRANSMITTED FORCE
 (E.G., EARTHQUAKE)
 52/167.4 .Relative motion means between a structure and
 its foundation
- 2 74/573F (0 OR, 2 XR)
 Class 074 : MACHINE ELEMENT OR MECHANISM
 74/469 CONTROL LEVER AND LINKAGE SYSTEMS
 74/572 .Flywheels and rotors
 74/573R ..With balancing means
 74/573F ...Fluid balancing means
- 2 110/214 (1 OR, 1 XR)
 Class 110 : FURNACES
 110/203 WITH EXHAUST GAS TREATMENT MEANS
 110/210 .Afterburning means
 110/214 ..Including means to add air
- 2 114/124 (0 OR, 2 XR)
 Class 114 : SHIPS
 114/121 BALLASTING
 114/124 .Shifting weights
- 2 114/219 (1 OR, 1 XR)
 Class 114 : SHIPS
 114/219 Fenders
- 2 114/274 (0 OR, 2 XR)

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Class 114 : SHIPS
 114/271 HULL OR HULL ADJUNCT EMPLOYING FLUID DYNAMIC
 FORCES TO DERIVE A LIFT OR ALTER TRIM, E.G., PLANING HUL

LS

114/274 .Having hydrofoil

2 114/279 (1 OR, 1 XR)
 Class 114 : SHIPS
 114/271 HULL OR HULL ADJUNCT EMPLOYING FLUID DYNAMIC
 FORCES TO DERIVE A LIFT OR ALTER TRIM, E.G., PLANING HU

LLS

114/274 .Having hydrofoil
 114/279 ..With shock damping means

2 137/493.8 (1 OR, 1 XR)
 Class 137 : FLUID HANDLING
 137/455 LINE CONDITION CHANGE RESPONSIVE VALVES
 137/493 .Bi-directional flow valves
 137/493.8 ..Axes of ports parallel

2 137/512.15 (1 OR, 1 XR)
 Class 137 : FLUID HANDLING
 137/455 LINE CONDITION CHANGE RESPONSIVE VALVES
 137/511 .Direct response valves (i.e., check valve
 type)
 137/512 ..Plural
 137/512.1 ...Dividing and recombining in a single flow
 path
 137/512.15Integral resilient member forms plural
 valves

2 165/103 (0 OR, 2 XR)
 Class 165 : HEAT EXCHANGE
 165/96 WITH ADJUSTOR FOR HEAT, OR EXCHANGE MATERIAL,
 FLOW
 165/100 .Branched flow
 165/103 ..By pass of heating or cooling means

2 174/42 (2 OR, 0 XR)
 Class 174 : ELECTRICITY: CONDUCTORS AND INSULATORS
 174/40R OVERHEAD
 174/42 .With conductor vibration damping means

2 188/267 (0 OR, 2 XR)
 Class 188 : BRAKES
 188/266 INTERNAL-RESISTANCE MOTION RETARDER
 188/267 .Using magnetic flux

2 188/322.5 (0 OR, 2 XR)
 Class 188 : BRAKES
 188/266 INTERNAL-RESISTANCE MOTION RETARDER
 188/322.5 .Using viscosity of fluid medium

2 192/204 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/200 .Clutch element resiliently carried on hub

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- 192/204 ..Specified bushing
- 2 192/205 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/200 .Clutch element resiliently carried on hub
 192/205 ..Separate seat detail
- 2 192/207 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/200 .Clutch element resiliently carried on hub
 192/207 ..Circumferential resilience
- 2 192/209 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/200 .Clutch element resiliently carried on hub
 192/207 ..Circumferential resilience
 192/209 ...Nonmetallic
- 2 192/213.1 (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/200 .Clutch element resiliently carried on hub
 192/207 ..Circumferential resilience
 192/212 ...Coil spring
 192/213 Plural helical coil spring damping stages
 192/213.1 Plural axially spaced springs
- 2 192/214.1 (1 OR, 1 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/200 .Clutch element resiliently carried on hub
 192/207 ..Circumferential resilience
 192/212 ...Coil spring
 192/214 Interposed friction element
 192/214.1 Biasing means
- 2 192/30V (0 OR, 2 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/30V .Vibration dampers
- 2 192/55.4 (1 OR, 1 XR)
 Class 192 : CLUTCHES AND POWER-STOP CONTROL
 192/30R CLUTCHES
 192/54.1 .Torque responsive
 192/55.2 ..With flexible shaft coupling permitting
 limited relative rotation
 192/55.3 ...Separate resilient member between clutch
 element and its shaft
 192/55.4 Fluid damper
- 2 228/1.1 (0 OR, 2 XR)
 Class 228 : METAL FUSION BONDING
 228/1.1 MEANS TO APPLY VIBRATORY SOLID-STATE BONDING
 ENERGY (E.G., ULTRASONIC, ETC.) TO WORK

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- 2 228/110.1 (0 OR, 2 XR)
 Class 228 : METAL FUSION BONDING
 228/101 PROCESS
 228/110.1 .Using high frequency vibratory energy (e.g.,
 ultrasonic)
- 2 248/559 (1 OR, 1 XR)
 Class 248 : SUPPORTS
 248/559 INCLUDING ADDITIONAL VIBRATING MASS
- 2 248/562 (0 OR, 2 XR)
 Class 248 : SUPPORTS
 248/560 RESILIENT SUPPORT
 248/562 .Including additional energy absorbing means,
 e.g., fluid or friction damping, etc.
- 2 248/584 (0 OR, 2 XR)
 Class 248 : SUPPORTS
 248/560 RESILIENT SUPPORT
 248/580 .Including load sustaining bearing or guide
 248/584 ..Resilient means acts through linkage or gear
- 2 257/666 (0 OR, 2 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/666 LEAD FRAME
- 2 257/696 (0 OR, 2 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/688 .With large area flexible electrodes in press
 contact with opposite sides of active semiconductor c
 hip
 and surrounded by an insulating element, e.g., ring
 257/690 .With contact or lead
 257/692 ..With particular lead geometry
 257/693 ...External connection to housing
 257/696Bent (e.g., J-shaped) lead
- 2 257/775 (0 OR, 2 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
 257/773 .Of specified configuration
 257/775 ..Varying width or thickness of conductor
- 2 257/776 (2 OR, 0 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
 257/773 .Of specified configuration
 257/776 ..Cross-over arrangement, component or
 structure
- 2 257/780 (0 OR, 2 XR)
 Class 257 : ACTIVE SOLID-STATE DEVICES
 257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
 257/780 .Ball or nail head type contact, lead, or bond
- 2 257/784 (0 OR, 2 XR)

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Class 257 : ACTIVE SOLID-STATE DEVICES
 257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
 257/784 .Wire contact, lead, or bond

2 267/140.11 (0 OR, 2 XR)

Class 267 : SPRING DEVICES
 267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
 267/140.11 .Including energy absorbing means or feature
 (e.g., supplemental vehicle equipment, such as motor mount,
 seat, etc., including additional fluid or friction energy
 absorber)

2 267/140.13 (1 OR, 1 XR)

Class 267 : SPRING DEVICES
 267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
 267/140.11 .Including energy absorbing means or feature
 (e.g., supplemental vehicle equipment, such as motor mount,
 seat, etc., including additional fluid or friction energy
 absorber)

267/140.13 ..Axial

2 267/141.2 (0 OR, 2 XR)

Class 267 : SPRING DEVICES
 267/136 RESILIENT SHOCK OR VIBRATION ABSORBER
 267/141 .Nonmetallic, resilient element
 267/141.2 ..Confined between coaxial, vibrating annular
 members

2 267/219 (0 OR, 2 XR)

Class 267 : SPRING DEVICES
 267/2 VEHICLE
 267/195 .Mechanical spring and nonresilient retarder
 (e.g., shock absorber)
 267/217 ..Fluid retarder
 267/219 ...Elastomeric spring

2 310/326 (1 OR, 1 XR)

Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
 310/300 NON-DYNAMOELECTRIC
 310/311 .Piezoelectric elements and devices
 310/326 ..Combined with damping structure

2 381/354 (0 OR, 2 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/337 .Having acoustic wave modifying structure
 381/354 ..Absorbing or attenuating element

2 422/176 (0 OR, 2 XR)

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,
 DEODORIZING, PRESERVING, OR STERILIZING
 422/129 CHEMICAL REACTOR
 422/168 .Waste gas purifier
 422/176 ..Including waste gas flow distributor upstream
 of reaction site and within reaction chamber modifying

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velocity profile of gas

- 2 438/617 (0 OR, 2 XR)
Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
438/584 COATING WITH ELECTRICALLY OR THERMALLY
CONDUCTIVE MATERIAL
438/597 .To form ohmic contact to semiconductive
material
438/612 ..Forming solder contact or bonding pad
438/613 ...Bump electrode
438/615Including fusion of conductor
438/617By wire bonding
- 2 440/53 (0 OR, 2 XR)
Class 440 : MARINE PROPULSION
440/49 SCREW PROPELLER
440/53 .With means effecting or facilitating movement
of propulsion unit or a segment of the propulsion unit
(e.g., tilting or steering)
- 2 440/6 (2 OR, 0 XR)
Class 440 : MARINE PROPULSION
440/6 ELECTRIC DRIVE FOR PROPELLING MEANS
- 2 464/17 (0 OR, 2 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND
FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/17 HAVING HEATING OR COOLING MEANS
- 2 464/180 (0 OR, 2 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND
FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/179 SHAFTING
464/180 .Particular vibration dampening or balancing
structure
- 2 464/57 (0 OR, 2 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND
FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
464/57 .Element has plural convolutions wound about
rotational axis
- 2 464/64 (0 OR, 2 XR)
Class 464 : ROTARY SHAFTS, GUDGEONS, HOUSINGS, AND
FLEXIBLE COUPLINGS FOR ROTARY SHAFTS
464/51 TORQUE TRANSMITTED VIA FLEXIBLE ELEMENT
464/61 .Element is a spring coiled about centerline
angularly related to or radially spaced from rotational
axis
464/62 ..Plural springs
464/64 ...Plural superposed springs on common
centerline
- 2 473/316 (1 OR, 1 XR)
Class 473 : GAMES USING TANGIBLE PROJECTILE
473/131 GOLF
473/282 .Club or club support

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473/316 ..Shaft

2 473/520 (2 OR, 0 XR)

Class 473 : GAMES USING TANGIBLE PROJECTILE

473/516 PLAYER HELD AND POWERED, NONMECHANICAL

PROJECTOR, PER SE, FOR PROJECTING AERIAL PROJECTILE BY
STRIKING; PART THEREOF OR ACCESSORY THEREFOR

473/520 .With sound-deadening, vibration-damping, or
shock-absorbing feature other than projectile- or
hand-contact surface or with rebound reducing feature

2 984/DIG 1 (0 OR, 2 XR)

Class 984 : MUSICAL INSTRUMENTS

984/DIG 1 PAPER COPIES IN NUMERICAL ORDER OF ALL U.S.
PATENTS IN SUBCLASSES 1-398